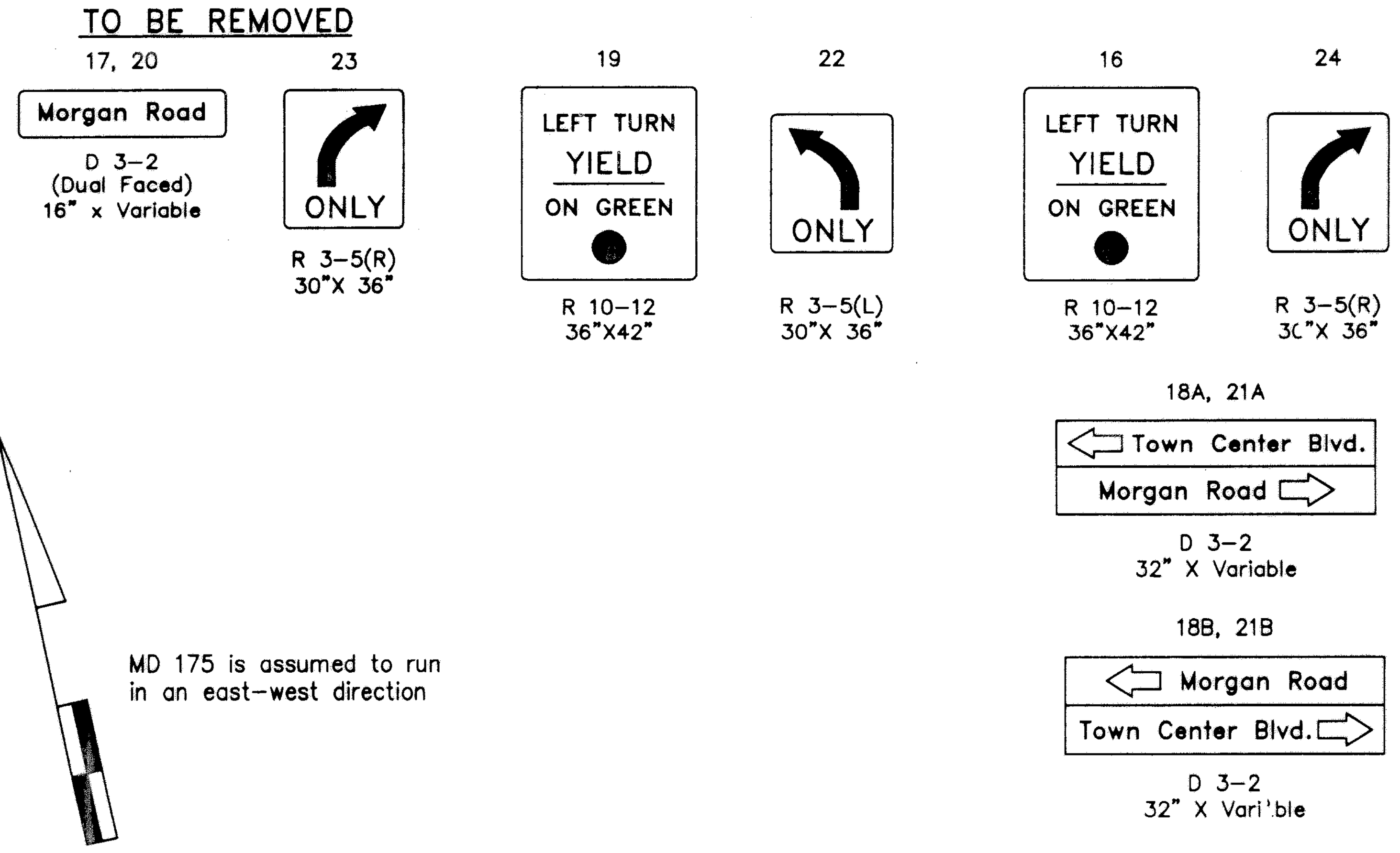
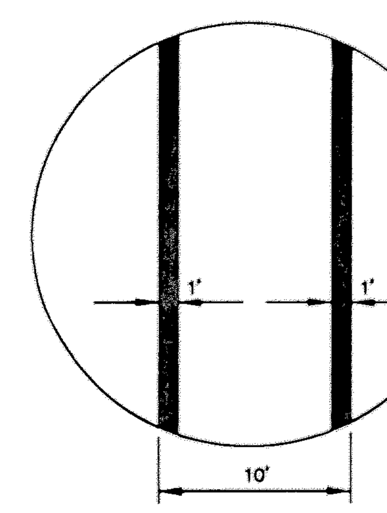
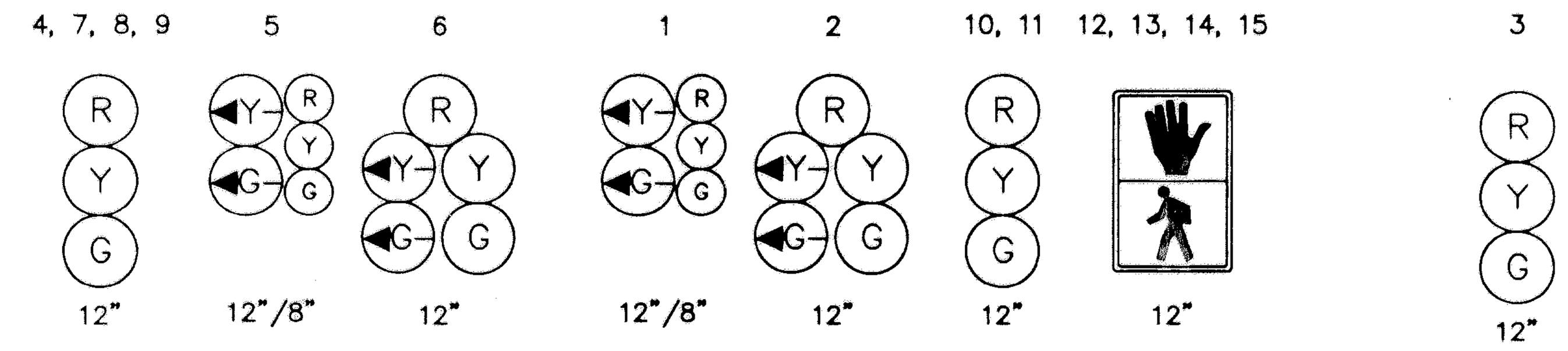
F.H.W.A. REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD.		12	19





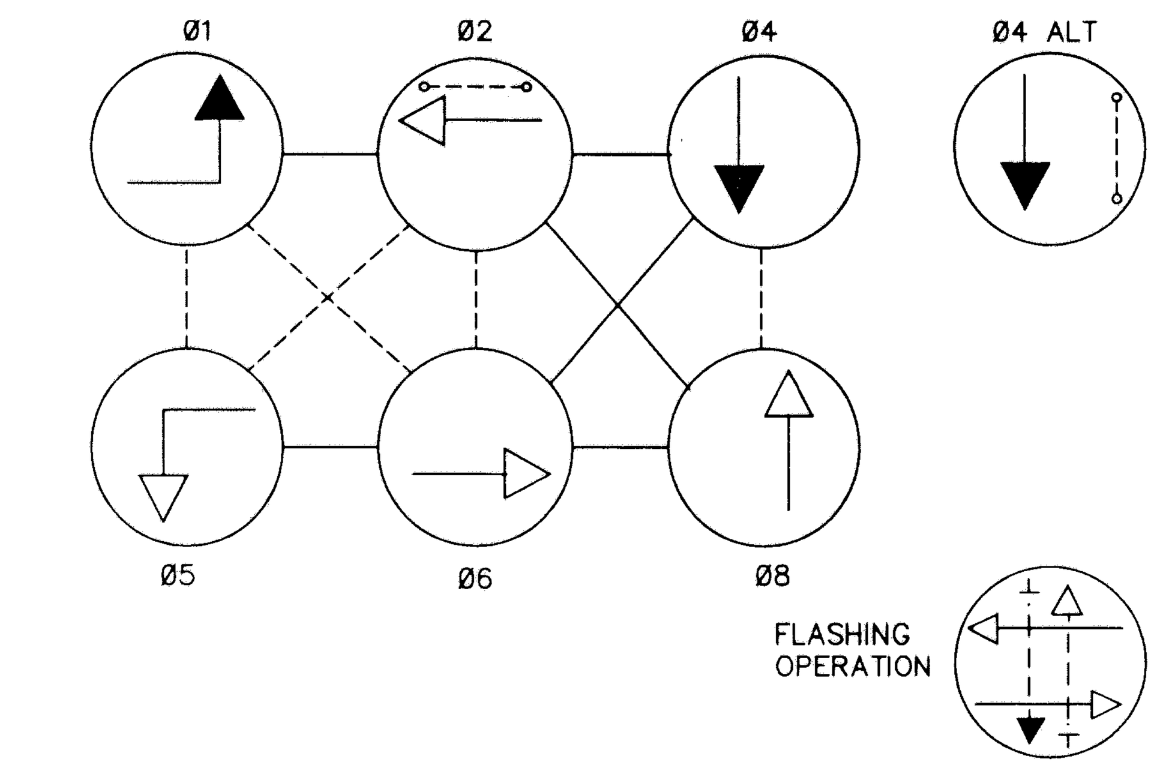
CROSSWALK DETAIL
(SCALE: 1" = 10')



GENERAL NOTES:

1. "D.O." DENOTES DELAYED OUTPUT DETECTORS.
2. PAVEMENT MARKINGS ARE NOT TO BE INSTALLED UNTIL LOOP DETECTORS AND CONDUIT INSTALLATIONS ARE COMPLETED.
3. PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH SHA STANDARDS. ALL OTHER PAVEMENT MARKINGS NOT DETAILED ARE EITHER EXISTING TO REMAIN OR NEW TO BE INSTALLED AS PART OF THE HIGHWAY CONTRACT (SHOWN ON THE SIGNING AND PAVEMENT MARKING PLAN).

NEMA PHASING



PHASING NOTES:
1. PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY
2. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY

CONSTRUCTION DETAILS

A. INSTALL 50' MAST ARM, TRAFFIC SIGNAL HEADS, AND SIGNS ON EXISTING 12" X 27' TWIN STEEL MAST ARM POLE. INSTALL PEDESTRIAN SIGNAL, PUSHBUTTON, AND R10-3C SIGN. USE EXISTING TRAFFIC SIGNAL HEADS (EXCEPT AS NOTED TO BE REMOVED).

B. INSTALL MICRO-LOOP PROBE SET.

C. INSTALL 6' X 30' QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4" FLEXIBLE TUBING (3-6-3 TURNS).

D. INSTALL 1" LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT AND FITTING (DETECTOR WIRE SLEEVE).

E. INSTALL HANDHOLE.

F. INSTALL 2" POLYVINYL CHLORIDE (SCHEDULE 80) ELECTRICAL CONDUIT – TRENCHED.

G. INSTALL TRAFFIC SIGNAL HEADS AND SIGNS ON EXISTING STEEL MAST ARM. INSTALL PEDESTRIAN SIGNAL ON MAST ARM POLE. USE EXISTING TRAFFIC SIGNAL HEAD AND SIGNS (EXCEPT AS NOTED TO BE REMOVED).

H. REMOVE EXISTING MAST ARM MOUNTED SIGN.

I. RELOCATE EXISTING UTILITY POLE – BY OTHERS.

J. INSTALL 10' BREAKAWAY PEDESTAL POLE WITH TWO PEDESTRIAN SIGNALS, ONE PUSHBUTTON, AND ONE R10-3C SIGN (NOTE: ONE 2" (SCHEDULE 80), 90-DEGREE PVC BEND).

K. INSTALL 12" PERMANENT PREFORM WHITE PAVEMENT MARKING FOR CROSSWALKS FOR CROSSWALKS (WITH DIAGONAL LINES AT 45° ANGLE).

L. INSTALL 24" PERMANENT PREFORM WHITE PAVEMENT MARKINGS FOR STOP LINES.

M. USE EXISTING HANDHOLE. THE CONTRACTOR SHALL AVOID DAMAGING THE EXISTING HANDHOLE WHEN CONSTRUCTING THE NEW CURB. MAKE ADJUSTMENT OF CURB ALIGNMENT AS NECESSARY, WITH APPROVAL BY THE ENGINEER.

N. USE EXISTING HANDHOLE.

O. USE EXISTING CONDUIT.

CONSTRUCTION DETAILS (CONTINUED)

P. REMOVE EXISTING POLE MOUNTED CABINET. RELOCATE THE EXISTING CONTROLLER TO THE NEW BASE MOUNTED CABINET. DISCONNECT ALL THE EXISTING 2-CONDUCTOR ALUMINUM SHIELDED CABLES, PULL THEM BACK TO THE HANDHOLE AT THE SOUTHWEST CORNER (SEE NOTE W), AND REROUTE THE CABLES TO THE NEW BASE MOUNTED CABINET.

Q. INSTALL NEMA SIZE 6 BASE MOUNTED CABINET WITH ALL NECESSARY EQUIPMENT. (NOTE: TWO 2 IN. (SCHEDULE 80) AND TWO 4 IN. (SCHEDULE 80), 90-DEGREE PVC CONDUIT BENDS.)

R. INSTALL 3 IN. POLYVINYL CHLORIDE (SCHEDULE 80) ELECTRICAL CONDUIT – BORED.

S. CAP AND ABANDON EXISTING CONDUIT. REROUTE THE EXISTING 2-CONDUCTOR ALUMINUM SHIELDED CABLES THROUGH THE NEW INSTALLED CONDUIT (SEE NOTES R AND X).

T. INSTALL 4" POLYVINYL CHLORIDE (SCHEDULE 80) ELECTRICAL CONDUIT – TRENCHED.

U. USE EXISTING MAST ARM POLE. USE EXISTING TRAFFIC SIGNAL HEADS AND SIGN (EXCEPT AS NOTED TO BE REMOVED).

V. REMOVE EXISTING TRAFFIC SIGNAL HEAD.

W. EXISTING 2-CONDUCTOR ALUMINUM SHIELDED CABLES ARE PULLED BACK TO THIS HANDHOLE AND RERCUTED TO THE NEW CABINET (SEE NOTE P).

X. INSTALL 3 IN. PYLOVINYL CHLORIDE (SCHEDULE 80) ELECTRICAL CONDUIT – TRENCHED.

LEGEND

= = = = = =	Existing Geometrics
══════	Proposed Geometrics
OVERHEAD UTILITIES	
ELECTRICAL	A
UNDERGROUND UTILITIES	
ELECTRIC	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

PREPARED BY

URS Greiner

4 NORTH PARK DRIVE, SUTE 300
HUNT VALLEY, MARYLAND 21030
410-785-7220

STATE OF MARYLAND REGISTERED PROFESSIONAL ENGINEER

REVISIONS	APPROVALS
(D) DECEMBER, 1998 — MODIFY EXISTING TRAFFIC SIGNAL; ADD EQUIPMENT FOR NORTH APPROACH DUE TO NEW GEOMETRICS.	ORIGINAL — CHIEF, SIGNAL DESIGN SECTION
	ON — ASST. DISTRICT ENGINEER, TRAFFIC
(C) SEPTEMBER 1995 — RECONSTRUCTION DUE TO MORGAN ROAD EXTENSION	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	FILE — DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MARYLAND DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION – OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNAL PLAN
MD 175 AT MORGAN ROAD/TOWN CENTER BLVD.

DRAWN BY: J. HOHMAN
DES. BY: K. SCHMID
CHK. BY: K. SCHMID
LOG MILE NO. 02017503.81
COUNTY: Anne Arundel
DATE: JULY 1995
SCALE: 1"=20'
F.A.P. NO.
S.H.A. NO.
TS/FILE NO. 2049D
SHEET NO. 12 OF 19

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